

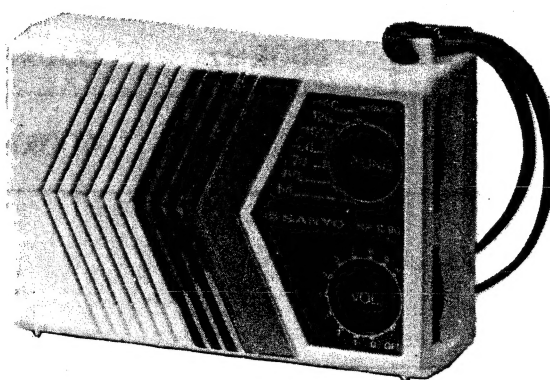
# SERVICE MANUAL



# SANYO

## PORTABLE RADIO

# RP 1390



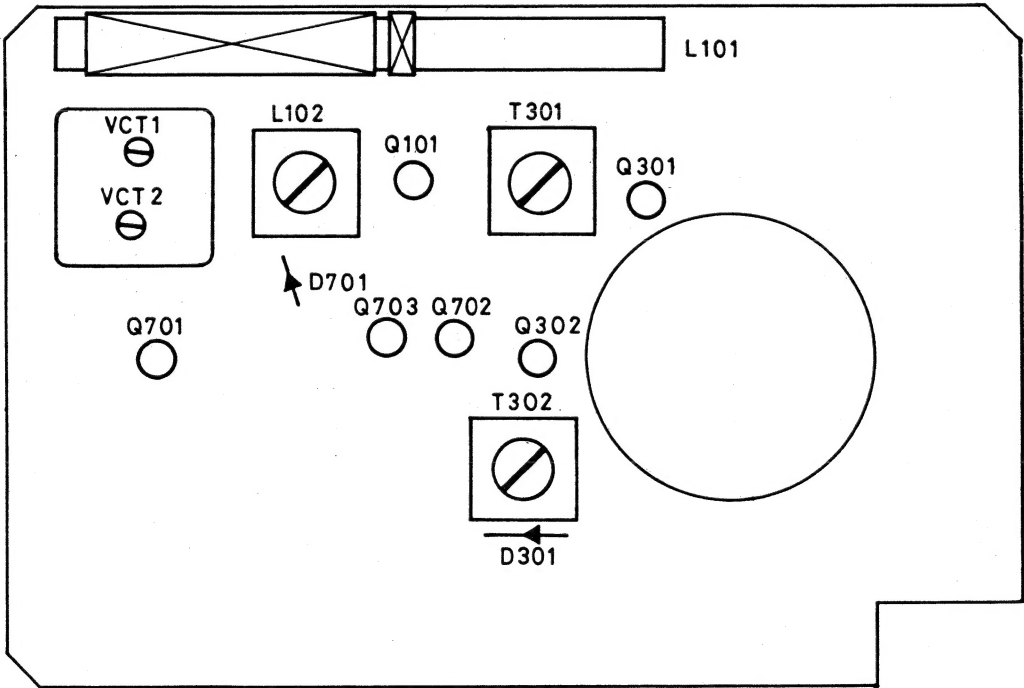
### SPECIFICATIONS

Frequency Range:	MW 530 ~1605 kHz
Intermediate Frequency:	455 kHz
Audio Output:	Maximum 100 mW
Power Source:	DC 3V; Two Penlite ("AA" Size) Batteries
Transistors:	6
Diodes:	2
Speaker:	57 mm, Permanent Dynamic, 8 ohms
Dimensions:	77mm(H) x 104mm(W) x 30mm(D)
Weight: (Approx)	180g (without Batteries)

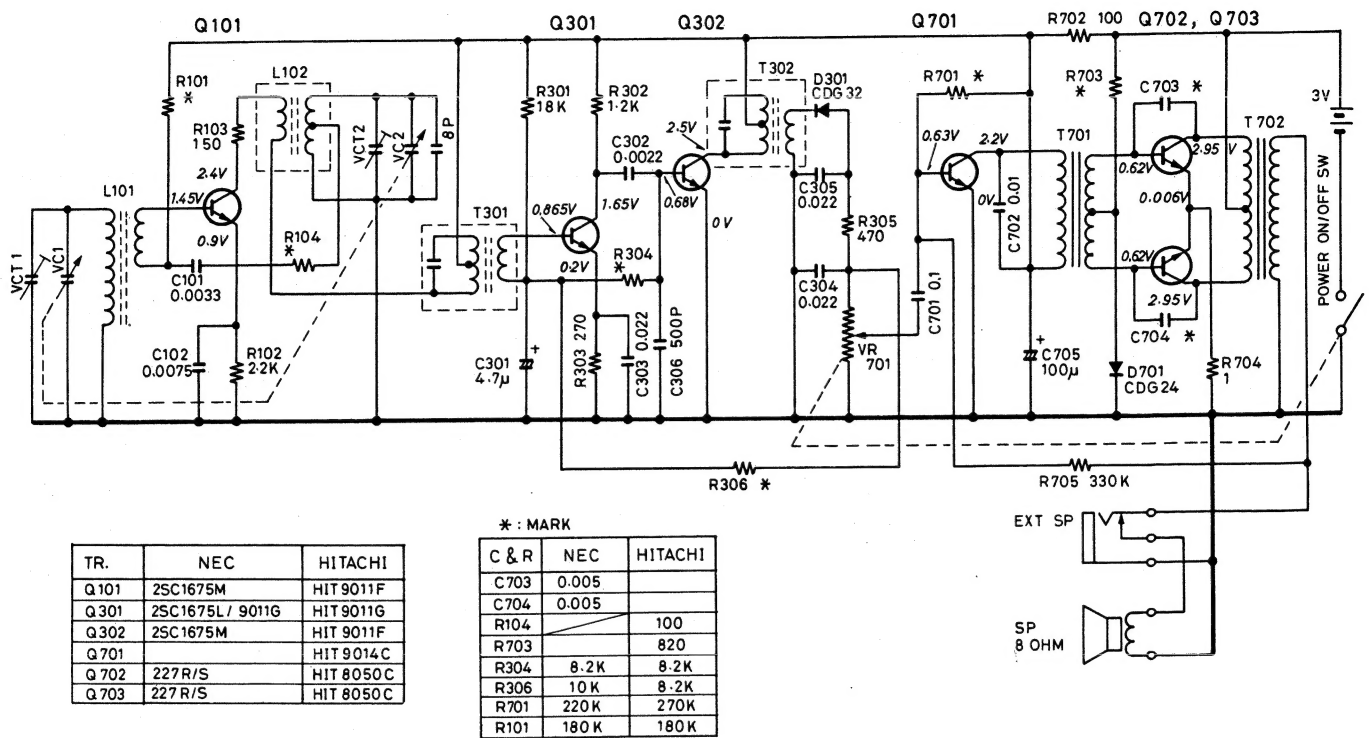
ALIGNMENT PROCEDURES \_\_\_\_\_

PROCEDEURS	SIGNAL INPUT	FREQUENCY OF SIGNAL GEN.	DIAL SETTING OF RADIO	ADJUSTMENT
IF STAGE	IRE LOOP	455kHz	Lowest end	IFT's T301 & T302
BAND COVERAGE	IRE LOOP	505kHz	Lowest end	Osc.Coil L102
		1640kHz	Highest end	Osc. Trimmer VCT2
TRACKING	IRE LOOP	600kHz	600kHz	Ant.Coil L101
		1400kHz	1400kHz	Ant. Trimmer VCT1

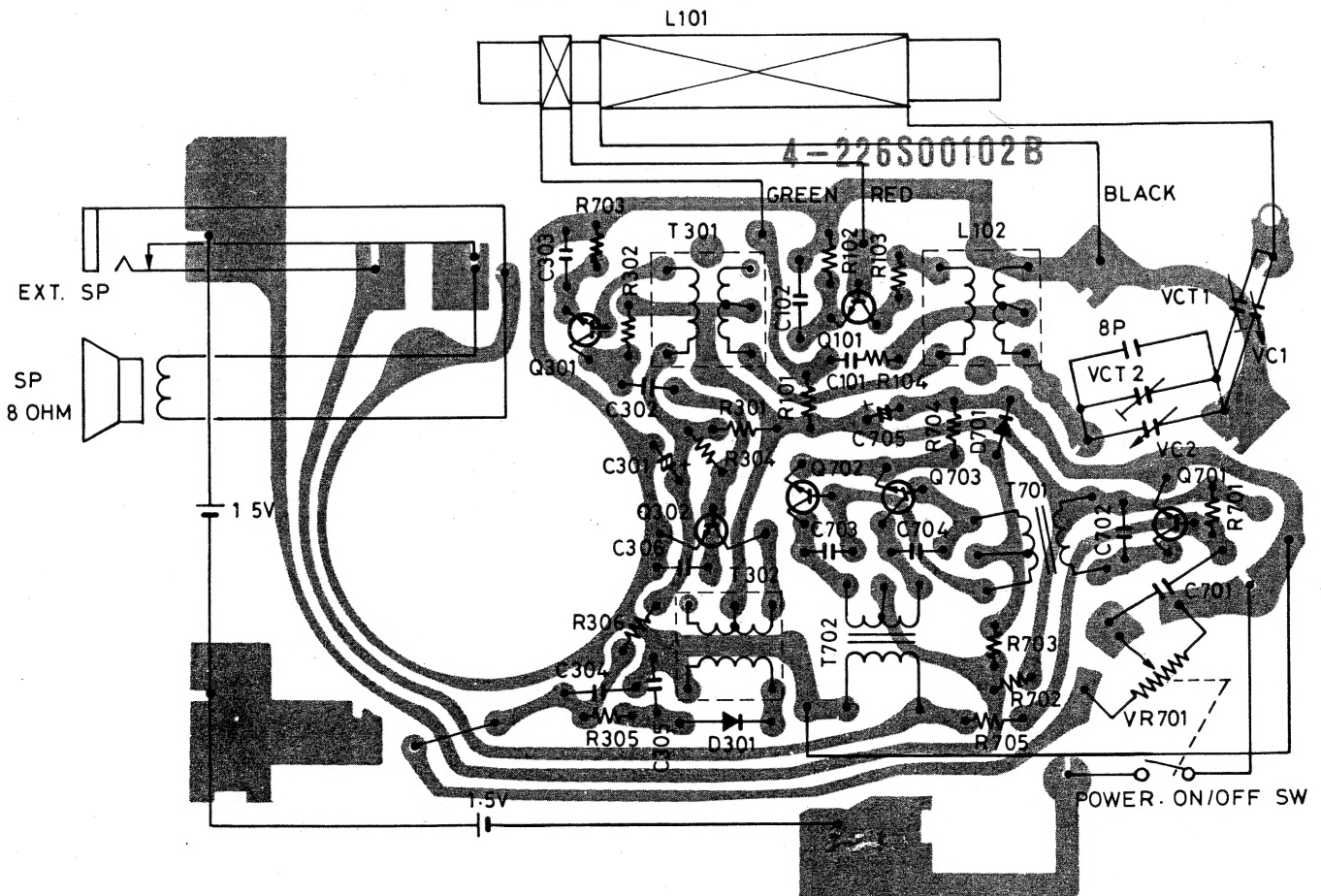
PARTS LOCATION \_\_\_\_\_



## SCHEMATIC DIAGRAM



## WIRING DIAGRAM



# PARTS LIST

Ref. No.	Part No.	Description	Q'ty
<b>PACKING &amp; ACCESSORY</b>			
	141-6-141T-07330	Display Carton	1
	141-6-231T-06200	Inner Poly Cover, Earphone Band	1
	4-152R-10896	Earphone	1
<b>CABINET</b>			
	141-0-111T-47030	Cabinet Ass'y	1
	141-2-126T-35201	Back Lid	1
	141-2-163T-76100	Rotary Knob, Tuner	1
	141-2-163T-76200	Rotary Knob, Volume	1
<b>MOUNTING PARTS</b>			
		Pan Head Screw 2.6 x 4mm, VC	2
		Pan Head Screw 2.6 x 6mm, Tuner Knob	1
		Pan Head Screw 2 x 4mm, VR Knob	1
<b>ELECTRICAL PARTS</b>			
L101	141-4-226S-00106	P.C.B. Ass'y	1
	4-257S-00600	ANT Coil	1
	124-2-369S-00100	Bracket Coil	1
L102	4-258T-28510	O. S. C Coil	1
T301	4-256S-00100	IFT	1
T302	4-256T-06440	IFT	1
	4-254S-00300	or IPT	1
T701	4-254S-00372	or OPT	1
	4-254S-00400		1
T702	4-254S-00472		1
VC1,2 } VCT1,2 } R701	4-224T-16600	Variable Capacitor	1
	4-222R-11800	Variable Resistor	1
	4-235S-00100	Socket	1
	141-2-336T-13100	Terminal Battery	1
	141-2-336T-09600	Terminal Battery	1
	123-2-336R-13200	Terminal Battery	1
	4-151T-16100	Speaker	1
Q101,302		Transistor CS9018 or ST9018 or CS9011 or HIT9011 or 2SC1675	2
Q301		Transistor CS9011 or ST9011 or HIT9011 or 2SC1675	1
Q701		Transistor 2SC923 or CS9014 or HIT9014 or ST9014	1
Q702,703		Transistor CS9013 or ST9013 or 2SD227 or HIT8050	2
D301		Diode KX1 or CDG24S or CDG24	1
D701		Diode CDG24S or CDG32 or H32	1
<b>RESISTORS</b>			
All resistors are Carbon P-type $\pm 10\%$ , $\frac{1}{4}W$ unless otherwise noted.			
R704		1 ohm	1
R702		100 ohm	1
R103		150 ohm	1
R303		270 ohm	1
R305		470 ohm	1
R302		1.2K ohm	1
R304		8.2K ohm	1
R301		18K ohm	1
R101		180K ohm	1
R102		2.2K ohm	1
R705		330K ohm	1
R104		100 ohm	1

Ref. No.	Part No.	Description	Q'ty
<b>ELECTRICAL PARTS</b>			
R306	RESISTORS	10K ohm }	1
		8.2K ohm }	
R701		270K ohm }	1
		180K ohm }	
R703		220K ohm }	1
	CAPACITORS	820 ohm }	
		1K ohm }	1
C302		Ceramic 0.022 $\mu$ F 50V $\pm 20\%$	1
C101		Ceramic 0.0033 $\mu$ F 50V $\pm 20\%$	1
C102		Ceramic 0.0075 $\mu$ F 50V $\pm 20\%$	1
C303,304,305		Ceramic 0.022 $\mu$ F 50V $\pm 20\%$	3
C702		Ceramic 0.01 $\mu$ F 50V $\pm 20\%$	1
C306		Ceramic 500pF 50V $\pm 10\%$	1
C703,704		Ceramic 0.005 $\mu$ F 50V $\pm 20\%$	2
C701		Ceramic 0.1 $\mu$ F 50V $\pm 20\%$	1
C301		Electrolytic 4.7 $\mu$ F 6.3V	1
C705		Electrolytic 100 $\mu$ F 6.3V	1

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